alkaline pulping processes

AU Karhunen, Pirkko; Mikkola, Jouni; Brunow, Gosta

CS Laboratory of Organic Chemistry, Department of Chemistry, University of

Helsinki, FIN-00014, Finland

SO Advances in Lignocellulosics Chemistry for Ecologically Friendly Pulping

and Bleaching Technologies, European Workshop on Lignocellulosics and

Pulp, 5th, University of Aveiro, Aveiro, Port., Aug. 30-Sept. 2, 1998

(1998), 117-120 Publisher: University of Aveiro, Aveiro, Port. CODEN: 66TZAG

DT Conference

LA English

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> LOG Y

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST 178.95 179.16

STN INTERNATIONAL LOGOFF AT 13:22:26 ON 29 MAY 2003

L5 ANSWER 1 OF 1 CA COPYRIGHT 2003 ACS

AN 137:384652 CA

TI Preparation of .beta.3-adrenoceptor-stimulating phenoxyacetates and their

intermediates

IN Tanaka, Nobuyuki; Tamai, Tetsuo; Mukaiyama, Harunobu; Ishikawa,
Takehiro;

Kobayashi, Junichi; Akaba, Satoshi; Harada, Hiroshi

PA Kissei Pharmaceutical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C07C043-315

ICS C07B053-00; C07C069-734; C07C213-02; C07C217-60; C07B061-00; C07M007-00

CC 25-18 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

Section cross-reference(s): 1

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 2002338513 JP 2001-68023 MARPAT 137:384652	A2 A	20021127 20010312	JP 2002-64840	20020311
GI				•	

$$R^{20}$$
 $R^{10}$ 
 $R^{10}$ 
 $R^{10}$ 
 $R^{10}$ 
 $R^{10}$ 
 $R^{10}$ 

AB Dimethylbenzenes I (R1 = lower alkyl; R2 = lower alkyl, H; R3 = H,

CH2CO2R; R = lower alkyl; X = H, OH) are prepd. as intermediates for the

phenoxyacetates II (R = lower alkyl) or their salts. 2,5-xylenol

Ι

II

(100 g) was treated with glyoxal di-Me acetal and NaOH in H2O at 55.degree. for 5 h to give 150 q I (R1 = R2 = Me, R3 =H, X =OH), which was converted into II (R = Et) in 4 steps. adrenergic receptor stimulant phenoxyacetate prepn intermediate ST IT Adrenoceptors RL: MSC (Miscellaneous) (.beta.3; prepn. of .beta.3-adrenoceptor-stimulating phenoxyacetates and their intermediates) IT 476333-87-6P 476333-88-7P 476333-89-8P 476333-90-1P RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prepn. of .beta.3-adrenoceptor-stimulating phenoxyacetates and their intermediates) IT 255733-81-4P 476333-91-2P RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation) (prepn. of .beta.3-adrenoceptor-stimulating phenoxyacetates and their intermediates) IT 95-87-4, 2,5-Xylenol 771-91-5 51673-84-8, Glyoxal dimethyl acetal RL: RCT (Reactant); RACT (Reactant or reagent) (prepn. of .beta.3-adrenoceptor-stimulating phenoxyacetates and their .intermediates)

L2 ANSWER 3 OF 5 CA COPYRIGHT 2003 ACS

AN 118:6732 CA

TI Process for preparing phenethanol ethers by hydrogenation of phenylglyoxal

acetals

IN Durrwachter, John R.; Meier, Michael; Mott, Graham N.; Mueller, Werner H.

PA Hoechst Celanese Corp., USA

SO U.S., 8 pp. Cont.-in-part of U.S. Ser. No. 628,238. CODEN: USXXAM

DT Patent

LA English

IC ICM C07C041-28

NCL 568630000

CC 25-9 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	US 5124489	Α	19920623	US 1991-755913	19910906
	US 5120855	Α	19920609	US 1990-628238	19901213
	IL 98538	<b>A</b> 1	19970218	IL 1991-98538	19910617
	CA 2044859	AA	19920614	CA 1991-2044859	19910618
	FI 9103012	Α	19920614	FI 1991-3012	19910619
PRAI	US 1989-451675		19891214		
	US 1990-628238		19901213	•	
os	CASREACT 118:673	2; MAR	PAT 118:6732	·	
GI	·				

$$R^3$$
  $R^2$   $R^3$   $R^2$   $R^4$   $COCH(OR^1)_2$   $R^5$   $R^6$   $R^6$   $R^8$   $R^8$ 

AB Title compds. I [R1 = primary or secondary C1-20 alkyl; R2-R6 = H, alkyl,

(substituted) aryl, OH, alkoxy, (substituted) aryloxy, halo, CO2H,

acyloxy, etc.] were prepd. by catalytic hydrogenation of the corresponding

phenylglyoxal acetal II in the presence of an acid catalyst and a metal

catalyst. Thus, a soln. of 4-hydroxyphenylglyoxal di-Me acetal (prepn.

given) in MeOH contg. HCl and moist 10% Pd/C was charged to an autoclave



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and the mixt. was hydrogenated at 300 psig and 50.degree.C to
give
     4-(2'-methoxyethyl)phenol in 70% yield.
st
     phenylglyoxal acetal hydrogenation; phenylethyl ether
IT
     Hydrogenation
        (of phenylglyoxal acetals, phenylethyl ethers from)
     Hydrogenation catalysts
IT
        (palladium, platinum, and nickel with hydrogen chloride, for
Ph glyoxal
        acetals)
IT
     99-93-4, p-Hydroxyacetophenone
     RL: PROC (Process)
        (conversion of, to hydroxyphenylglyoxal acetal)
IT
     7440-02-0, Nickel, uses 7440-05-3, Palladium, uses 7440-06-4,
     Platinum, uses
     RL: USES (Uses)
        (hydrogenation catalyst with hydrogen chloride, for Ph
glyoxal acetals)
     7647-01-0, Hydrogen chloride, uses
IT
     RL: USES (Uses)
        (hydrogenation catalyst with palladium, for Ph glyoxal
acetals)
IT
     1333-74-0
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (hydrogenation, of phenylglyoxal acetals, phenylethyl ethers
from)
IT
     144757-78-8P
                    144757-79-9P
                                   144757-80-2P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT
     (Reactant or reagent)
        (prepn. and hydrogenation of)
IT
                   144757-76-6P 144757-77-7P
     56718-71-9P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (prepn. of, by hydrogenation of phenylglyoxal acetal)
     67-56-1, Methanol, reactions 67-63-0, Isopropanol, reactions
IT
123-51-3,
     Isoamyl alcohol 624-91-9, Methyl nitrite 1002-16-0, Amyl
nitrate
     1712-64-7, Isopropyl nitrate
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, in prepn. of hydroxyphenyl glyoxal
        acetal)
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